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— We have received from the author, M. A. Vayssière, memoir No. 3 of the second volume, zoölogy, of the *Annales du Musée d'Histoire Naturelle de Marseille*, entitled *Recherches zoologiques et anatomiques sur les Mollusques opisthobranches du Golfe de Marseilles*, 5, première partie, Tectibranches. This work fills 181 quarto pages, with six well-drawn plates, and is a product of the zoölogical laboratory founded by Professor Marion at Marseilles.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.— This body met at Ann Arbor, Mich., Wednesday August 26th, and terminated its sessions Tuesday September 1st, 1885, under the presidency of Professor H. A. Newton of New Haven. The officers of the meeting were as follows: Of Section E, vice president, Edw. Orton of Columbus, O.; secretary, H. Carvill Lewis of Philadelphia. Of Section F, Burt G. Wilder of Ithaca; secretary, J. A. Lintner of Albany. In the absence of Professor Wilder Professor T. J. Burrill of Champaign, Ill., took the chair. Of Section H, Wm. H. Dall of Washington, D. C.; secretary, Mrs. Erminnie A. Smith of Jersey City. In the absence of Mr. Dall, Mr. J. Owen Dorsey, of Washington, became chairman of the section. Section G was united with Section F. Its chairman was Mr. S. H. Gage of Ithaca; secretary W. H. Walmsley of Philadelphia.

The following papers were read:

Thursday, August 27th. *Section E—Geology.*—The geology of Ann Arbor, Alexander Winchell; Westward extension of rocks of the Lower Helderberg period in New York, S. G. Williams; Lower Silurian fossils in a limestone of Emmons' original Taconic, James D. Dana; Structure and relations of the Dakota Group, L. E. Hicks; Results from a study of the Gabbros and associated Amphibolites in Delaware, Frederick D. Chester; On the occurrence of trap rock in eastern Kentucky, A. R. Crandall; The quaternary deposits of Illinois, A. H. Worthen; Post-glacial changes of level in the basin of Lake Ontario, G. K. Gilbert; Sources of trend and *crustal surplusage* in mountain structure, Alexander Winchell; A probable cause of the shrinkage of the earth's crust, William B. Taylor.

Section F—Biology.—An observation on the hybridization and cross-fertilization of plants, E. Lewis Sturtevant; germination studies, E. Lewis Sturtevant; Biological deductions from a comparative study of the influence of cocaine and atropine on the organs of circulation, Dr. H. G. Berger; On the brain and auditory organs of a Permian Theromorph Saurian, Edw. D. Cope; Observations on the musk-rat, Amos W. Butler; The question

of bisexuality in the pond-scums (*Zygnemaceæ*), Charles E. Bessey; The process in fertilization in *Campanula americana*, Charles R. Barnes; The structure of *Glottidea pyramidata* (Stim.) Dall, Dr. H. G. Berger; Cœnostroma and Idiostroma, and the comprehensive character of the Stromatoporoids, Alexander Windell; The song-notes of the periodical Cicada (*Cicada septendecim* L.), and the mechanism by which they are produced, C. V. Riley; The periodical Cicada in Southeastern Indiana, Amos W. Butler; Some popular fallacies and some new facts regarding *Cicada septendecim*, C. V. Riley; Proof that Bacteria are the direct cause of the disease in trees known as pear-blight, J. C. Arthur.

Section G—Histology and Microscopy.—Photo-micrographs on gelatine plates for lantern projection, W. H. Walmsley; Photo-Micrography work with high powers, Professor T. J. Burrill; A new, cheap, useful and quickly constructed adjustable microtome, Chas. Porter Hart; Optical arrangements for Photo-micrography, and remarks on magnification, Romyne Hitchcock.

Section H—Anthropology.—A visit to the Siletz Agency, Rev. J. Owen Dorsey; Permanence of early Iroquois Clans and Sachemships, Rev. W. M. Beauchamp; The remains at San Juan Teotihuacan, Amos W. Butler; Significance of Flora to the Iroquois, Mrs. Erminnie A. Smith; A supposed natural alloy of copper and silver from the north shore of Lake Superior, in Minnesota, N. H. Winchell; Exhibition of copper implements, W. C. Wyman.

Friday, August 28th. *Section E—Geology and Geography.*—On the Classification of the upper Devonian, Henry S. Williams; The Gas and Oil Wells of Northwestern Ohio, Edward Orton; The Loess and Drift-clays, Wm. McAdams; Discovery of fossiliferous Potsdam Limestone, at Poughkeepsie, N. Y., William B. Dwight.

Section F—Biology.—On the parasites of the Hessian fly (*Cecidomyia destructor* Say), C. V. Riley; The mechanical injury to trees by cold, T. J. Burrill; Aquatic respiration in soft-shelled turtles (*Aspidonectes* and *Amyda*); A contribution to the physiology of respiration in vertebrates, Simon H. Gage and S. S. Phelps Gage; The presence or absence of underbasals in crinoids can be ascertained from the columns, Charles Wachsmuth; Further observations on the adventitious inflorescence of *Cuscuta glomerata*, Charles E. Bessey; On the phylogeny of the placental mammalia, Edward D. Cope; The structure of *Glottidea pyramidata* (Stim.) Dall, Dr. H. G. Beyer.

Section H—Anthropology.—Sacred war tent and some war customs of the Omahas, Alice C. Fletcher; Laws and terms of relationship of the Omahas, Francis LaFlesche; Exploration of recent Indian mounds in Dakota, William McAdams; Burial customs of our aborigines, Henry Gillman; Ancient pictographs

in Illinois and Missouri, William McAdams; Exhibit of specimens with notes, W. L. Coffinberry; Customs, language, and legends of the Senecas, J. W. Sanborn.

Monday, August 31st. *Section E—Geology and Geography.*—A new mass of meteoric iron from Charleston, Kanawha Co., West Virginia, George F. Kunz; Mineralogical notes: curious form of beryl from Auburn, Maine, capped garnet from Raymond, Maine, and an artificially stained turquoise from New Mexico, George F. Kunz; The tourmaline locality at Rumford, Oxford Co., Maine, George F. Kunz; A pseudomorph of feldspar after leucite (?) from Magnet Cove, Arkansas, George F. Kunz; Notes on a remarkable collection of rough diamonds, George F. Kunz; Native antimony and its associations at Prince William, York Co., N. B., George F. Kunz; The record of the deep well of the Cleveland Rolling Mill Company, Cleveland, Ohio, Edward Orton; The materials of the Appalachians, E. W. Claypole; Apatite deposits in Laurentian rocks, T. Sterry Hunt; Glaciation of the Lackawanna valley, John C. Branner.

Section F—Biology.—On the appearance of the relation of ovary and perianth in the development of dicotyledons, John M. Coulter; A new membrane of the human skin, Charles Sedgwick Minot; The development of the prothallium of ferns, D. H. Campbell; Organization and death, Charles Sedgwick Minot; Morphology of the supra-renal capsules, Charles Sedgwick Minot; The importance of individual facts of environment in the formation of groups of animals, J. B. Steere; Experiments antagonizing the view that the serrulæ (serrated appendages) of *Amia* are accessory organs, Burt G. Wilder; The structure of the human placenta, Charles Sedgwick Minot; On the structure and functions of *Sphæridia* of the *Echinidæ*, Howard Ayers; On the carapax and sternum of the decapod Crustacea, Howard Ayers; Notes on some injurious fungi of California, W. G. Farlow; A new Chromogenous *Bacillus* (*Bacillus luteus suis*), D. E. Salmon and Thomas Smith; Evolution of the lungs, Charles Sedgwick Minot.

Section H—Anthropology.—Music in speech, M. L. Rouse; The stone ax in the Champlain valley, G. H. Perkins; The number habit, C. S. Minot; Indian personal names, J. Owen Dorsey; An average day in camp, Alice C. Fletcher; Are contemporary phantasms of the dead to be explained partly as folk lore? C. S. Minot; Ornaments made of pieces of human skulls, from a mound in Ohio, F. W. Putnam.

Tuesday, September 1st. *Section E—Geology and Geography.*—The Corniferous or Upper Helderberg group of Scott county, Iowa, and Rock Island, Ill., with a list of its fossils, A. S. Tiffany; The Chemung group at Burlington, Iowa, with a list of its fossils, A. S. Tiffany; Notice of *Lingula* and *Paradoxides* from

the red quartzites of Minnesota, M. H. Winchell; On the occurrence of trap-rock in eastern Kentucky, A. R. Crandall; Glaciation of the Lackawanna valley, John C. Branner.

Section F—Biology.—The structure of the human placenta, Charles Sedgwick Minot; Notes on some injurious fungi of California, W. G. Farlow; Evolution of the lungs, Charles Sedgwick Minot.

Section H—Anthropology.—Extracts from the address of the vice-president; "The Native Tribes of Alaska," W. H. Dall; On certain singular stone implements from Vermont, G. H. Perkins; Explorations in the great Cahokia mounds, Wm. McAdams; Proper methods of exploring mounds, etc., F. W. Putnam; Who made belt wampum? with exhibits, Erminnie A. Smith; Primary classifiers in Dhegiha and cognate languages, J. Owen Dorsey; Exhibition of copper implements, W. C. Wyman; The Degeneracy of Races, Wm. Zimmerman; The Animal Mounds of Wisconsin, W. DeHass; Archæological Remarks, W. DeHass.

The place of meeting for 1886 was decided to be Buffalo, New York.

The following officers were elected for the year 1886: President, E. S. Morse, of Salem, Mass.; vice-presidents, A—Mathematics and astronomy, J. W. Gibbs, of New Haven, Conn.; B—Physics, C. F. Brackett, of Princeton, N. J.; C—Chemistry, H. W. Wiley, of Washington, D. C.; D—Mechanical science, O. Chanute, of Kansas City, Mo.; E—Geology and geography, T. C. Chamberlin, of Washington, D. C.; F—Biology, H. P. Bowditch, of Boston, Mass.; H—Anthropology, Horatio Hale, of Clinton, Ont.; I—Economic science and statistics, Joseph Cummings, of Evanston, Ill.; permanent secretary, F. W. Putnam, of Cambridge, Mass. (holding over); general secretary, S. G. Williams, of Ithaca, N. Y.; assistant general secretary, W. H. Pettee, of Ann Arbor, Mich.; secretaries of the sections, A—Mathematics and astronomy, S. C. Chandler, of Cambridge, Mass.; B—Physics, H. S. Carhart, of Evanston, Ill.; C—Chemistry, Wm. McMurtrie, of Champaign, Ill.; D—Mechanical science, William Kent, of Jersey City, N. J.; E—Geology and geography, E. W. Claypole, of Akron, Ohio; F—Biology, J. C. Arthur, of Geneva, N. Y.; H—Anthropology, A. W. Butler, of Brookville, Ind.; I—Economic science and statistics, H. E. Alvord, of Mountainville, N. Y.; treasurer, William Lilly, of Mauch Chunk, Pa.